Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_\_\_

HW 12: Midpoint

**Geometry**



|  |  |
| --- | --- |
| 1. Point K (1,4) and Point J (5,4) are bisected by Point T. What are the coordinates of Point T? | 1. Your house is at (1,1) and the mall is at (13, 15). The movie theater is halfway between your house and the mall, on the same road.    1. Draw and label a sketch to represent this situation.    2. What are the coordinates of the movie theater? |
| Directions: For each multiple choice question below show all work, identify the answer, and *explain* why your answer is correct. | |
| 1. Find the midpoint of a segment on a number line with coordinates -12 and 32. a. -44 c. 20 b. 10 d.22 | 1. On a real number line, the coordinate of point B is   -14 and the coordinate of point D is -8. What is the coordinate of the midpoint of ?  A. -11 C. -3  B. -6 D. 6 |
| 1. Opposite vertices of a square in the standard (x,y) coordinate plane have coordinates (4, 16) and (20, 0). What are the coordinates for the center of this square?   A. (18, 2) C. (8, 12)  B. (12, 8) D. (4, 20) | 1. On a number line, what is the distance in coordinate units between points *A* and *C* if *A* has coordinate 10 and *C* has coordinate –8?   A. 18 C. -1  B. -2 D. 1 |

Complete the following problems in your graph paper notebook.

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_\_\_

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